

Geel2000 Language Schools Computer Department

ICT Primary 6 First Term



Name :

Class:

Theme 1

Lesson 2 Computer network devices

Computers need different network connection devices to transfer data

	Device name		Role of device
N.	Modem	•	It's a device that connect s a local area network (LAN) to the internet It converts the signal from the internet service provider (ISP) which transform into a digital signal that can be read by device
the law has her has her	Switch	•	They can send data to a specific device over a network which helps to make connections easier and faster Switches are intelligent

Making connections

- Wired network use physical wiring and cables which are plugged into port on devices
- Wireless network connects without wiring (wireless or Wi-Fi)

Artificial intelligence (AI)

- It is a comprehensive term for computer applications that perform complex tasks that simulate the thinking and performance of the human element, such as the ability to learn and reason
- By providing these technologies with information and knowledge related to a subject, and possible answers to all possible questions, the machine can give answer to data provided, such as writing an article on a topic and inquiring about historical events and their sequence
- AI works to imitate sound when provided with the tone of voice of an actual human being

Choose the correct answer from a,b,c or d

1.		network connect	without wiring		
	a. Historical	b. Imitate	c. wireless	d. complex	
2.	are group	of devices or things	that are connected	ed to each other	
	for a common purpo	se			
	a. Explorers	b. networks	c. computers	d. keyboard	
3 Converts the signal from the internet services provider (ISP)					
	a digital signal				
	a.port	b. modem	c. router	d. switch	
4.	performs	complex tasks that	simulate that thir	nking and	
	performance of the h	numan element			
		b. Al	c. AR	d. ICI	
5.	A is a dev	vice that connects a	local area networ	k (LAN) to the	
	internet				
	a. Modem			d. server	
6.	The abbreviation of a				
	a. ALT b. I.	A c. Al	d.AR		
	(\checkmark) in front of correct				
(Computer network co	nnect computers wi	th each other, to s	hare important	
	nformation of data			()	
	Devices can be connec		•	·	
	Switches help to make			•	
	/R works to imitate so	und when provided	with the tone of v	oice of an actual	
ŀ	numan being			()	

Lesson 3 Technology and artificial intelligence (AI)

1. Virtual reality (VR):-

Is a virtual 3 _D environment that allow users to explore and interact with the surrounding, as if were reality.

To experience VR

- Users often wear a VR headset that blocks out the real world and provides view that immerse the user in another word
- In the classroom, VR can take you to a world where insects and atoms are bigger than you, so that you can study them closely
- It can take you a museum thousands of miles away ,or to a historical site hundreds of years ago

2. Augmented reality (AR)

AR combines the real world with a virtual world by adding image using computers

- Augmented reality can be done through
 - 1. A smartphone camera
 - 2. A tablet
- This will show a 3_D model of what the real world looks like:
- Students in a math class can point their smartphone camera at a flat surface and project a 3_D image like a cube or cylinder onto the surface, as if the figure is in front of them
- AR helps students become active participants in learning and makes learning more memorable

3. Artificial intelligence (AI)

- AI is the e ability of the computer to think, learn and deduce
- The computer learns by analyzing the available examples
- For examples, it predicts the word you will write from words you have written previously
- Al is used to unlock your phone with facial recognition

How can futuristic technology improve everyday life?

- It can improve the lives of people of determination
- For example, visually impaired people can use AR to see their family members up close
- Disabled individuals can use visual assistant powered by AI to accomplish every task such as:
 - 1. Making phone calls
 - 2. Navigating their computer using their voice or sign language

Virtual reality (VR)	Augmented reality (AR)	Artificial intelligence (AI)
A VR online tour of the tomb of king Tut , that	An AR app shows you how new furniture will look in	A robot vacuum uses Al to avoid furniture
allows you to "walk"	your house	and stirs
through the tomb		

1 Choose the correc	t answer from a, b, c	or d.	
1 feel fut everyday life.	uristic, but they are all	ready being used in ed	ducation and
a. Augmented re	ality	b. Virtual reality	
c. Artificial intellig	gence	d. all of them	
2. (1)con using computers		vith a virtual world by	adding images
a. Augmented re-		b. VR	
 c. Artificial intellig 	ence	d. both (a) and (b)
a of wh	e through a smartphon at looks like the real w	e camera or a tablet a	and will show
a. 3-D model	b. 2-D model	c. 4-D model	d. 5-D model
learning more me	emorable.	ctive participants in lea	rning and makes
a. RV	b. AR	c. VR	d. AI
with the surround	ial 3-D environment th ings, as if it were reali	nat allows users to exp ty.	olore and interact
a. RV	b. AR	c. VR	d. AI
6. []]is us	ed to unlock your pho	ne with facial recogni	tion.
a. AI	b. AR	c. VR	d. 3D
	ear a that blee the user in another	ocks out the real worl world.	d and provides
a. headphone	b. headset	c. VR headset	d. none of them
8. Augmented rea	ality can be done thro	ugh a	
a. tablet	b. computer	c. hardware	d. disk
9. In the classroom, bigger than you, so	that you can study t	u to a world where ins	sects and atoms are
 Augmented reali 		b. Virtual Reality	
c. VR		d. both (b) and (d	
10. A/An help accomplish everyda	disabled individuals ay tasks.	through using virtua	l assistants to
a, augmented realit	у	b. virtual reality	
c. artificial intelligen	ce	d. none of them	

Put (✓) in front of the correct sentence and (x) in front of the wron	ng one.		
1. Using AR, students in a math class can point their smartphone camera a			
surface and project a 3-D image like a cube or cylinder onto the surface.)
2. III Using windows helps students become active participants in learning	ing and		
makes learning more memorable.	()
Users often wear a normal headphone that blocks out the real wor	ld and		
provides views that immerse the user in another world.	()
 Artificial intelligence (AI) is the ability of the computer to think and lear 	n. ()
Futuristic technologies cannot improve the lives of people of determina	ation. ()
6. From the uses of AR, someone with a visual impaired can see their far			
members up close.	()
An AR app shows you how new furniture will look in your house.	()
Disabled individuals can use virtual assistants to make phone calls.	())
Read and write the name of app or tool.			
1. Abbreviation of AI	())
2. Abbreviation of VR	()	
3. Abbreviation of AR	())
4. It is the ability of computer to think, learn and deduce.	()	
5. It blocks out the real world and provides views that immerse the user			
	()	
Read and circle the correct one.			
From examples of (AR – GPS), students in a math class can point their smartphone camera at a flat surface and project a (5-D image – 3-D image –	je) like	а	
· From examples of (AR - GPS), students in a math class can point their	je) like	а	

Lesson 4 Evaluating cutting edge technology

Reliable cutting edge technology

- Artificial intelligence (AI)
- 2. Augmented reality (AR)
- 3. Virtual reality (VR)

Benefits of cutting edge technology

It has transformed life in ways that were unimaginable even a while ago in education

It Improve lives and inclusion I society for people of determination, such as the assistive technology smart glove that empower deaf people to translate their sign in real time to spoken or text output

Assistive technology

- It helps people of determination Such as: -
- 1. Screen magnification software
- 2. Hearing aids
- 3. Programs that turn speech to text and text to speech A visually impaired man uses a scanning and reading machine

<u>User experiences</u>

- It describes how to use the product and interact with it, and how to evaluate the experience
- It's often broken into different areas, and can be positive or negative

How to evaluate the product?

- **1. Accessible**: Is it accessible for people of determination?
- 2. Credible: Are the company and its product trustworthy?
- 3. Desirable: Does the product meet your needs?
- **4. Findable :**If there is an issue with the project or service can I find the solution .

5. Usable : Is it easy to use?

6. Useful: Is it practical?

7. Valuable: Does this product improve my life or help me learn?

Meeting need

 User experience is interlinked with the development or products and services

 Cutting _edge assistive is incredibly varied, but the goal is the same _to improve someone 's independence and consequently, inclusion in society

1 Choose the correct answer from	a, b, c or d.
1 is the latest and most	advanced version of a service or product.
a. Augmented reality	b. Cutting-edge technology
c. Artificial intelligence	d. Assistive technology
helps people of de software and hearing aids.	termination, for example, screen magnification
a. Augmented reality	 b. Cutting-edge technology
c. Artificial intelligence	d. Assistive technology
Screen magnification software, to text and text to speech are expected.	hearing aids, and programs that turn speech
a. augmented reality	b. cutting-edge technology
c. assistive technology	d. artificial intelligence
4. Artificial intelligence (AI), aug	gmented reality (AR), and virtual reality (VR)
a. augmented reality	b. cutting-edge technology
c. artificial intelligence	d. assistive technology
Smart gloves that empower of to spoken or text output consider	deaf people to translate their signs in real time red
a. augmented reality	b. cutting-edge technology
c. assistive technology	d. artificial intelligence
6. D describes how peop	ole use the product and interact with it, and how
a. User experiences	b. Meeting needs
c. Both of them	d. None of them
7 categories are ways of	technology evaluation.
a. Accessible	b. Desirable
c. Findable	d. all of them

Lesson 5: Digital research skills

Useful digital editing tools

Using keyboard shortcuts in word processing

Copy, paste and cut are some of the most commonly use word processing command and are very useful when coping, pasting or cutting text, information or image into a word processing file

$$Ctrl + X = cut$$
 $Ctrl + C = copy$
 $Ctrl + V = paste$

Digital search tools

- 1) search engines
- They help people to search internet websites based on the key words and phrases
- They're user _friendly, very fast, and often result in many results
- •Use your evaluation skills to ensure the content you select is credible and accurate
- 2) Databases
- They are a collection of information which are typically stored in a computer system and can be accessed for free through your school
- You can search for information from magazines and newspapers through the databases on the computer in school library
- A database is good place to search
- Example of database (EKB)
 - The EKB covers many subject
 - The result will be credible and accurate

- 3) library catalogs
- a library catalog is a database which includes all the items owned by a library
- a library catalog search may include recently published books, including e-books with the most recent research about a subject such as the catalog of the library of Alexandria
- you can use the library s website on the internet through that link

http:/www.bibalex.org

conducting a database search

- when you search any database, use a key word search
- review the results for subject heading and redo the search with those terms
- you can use other database field to narrow a search , such as (journal title _ author)
- limiting a search range by specifying dates will help you find the most up-to-date research

,	
1 Choose the correct answer	from a, b, c or d.
Choose the correct answer	most used word processing commands. b. Paste
1 are some of the l	b. Paste
a. Copy	d. All of them
c. Cut	arch internet websites based on the keywords
2. A can help peop	d. All of them ole to search internet websites based on the keywords
and pinases.	b. Database
a. Search engines	o do chrome
c. Library catalogs	d. Google chrome which includes all items owned by the library. b. engine
3. A library catalog is a/an	which includes all items of
a. heading	
	d. subject
u d'an el	information which are typically stored in a computer and for free through a school or library.
eyetem and can be access	ed, for most and s
a. Search engines	D. Databases
1 there a cotalogs	d. Google chrome
5 00 Year oop search for infol	mation from magazines and newspapers through
	MISSEL STATE OF THE PARTY OF TH
a. search engines	b. databases
mtalage	d. Google Chrome
C. Ilbrary Catalogo	e of a general database which covers many subjects.
6. The is an example	b. Twitter
a. Facebook	d. Instagram
c. EKB	
7. The EKB results are credib	le and
a. inaccurate	b. narrow
c. accurate	d. unclear
8 To get useful search res	ults and to narrow your search you can
a. search by author name	
b. search title of the journal	
c. search by specifying date	s
d. all of them	
	which includes all the items owned by a library.
	b. database
a. search engine	d. Google Chrome
c library catalog	u, dougle Officiale

LESSON FIVE	L	ES	SS	0	N	F	V	E
-------------	---	----	----	---	---	---	---	---

≥ Put (✓) in front of the co-		
 Put (✓) in front of the correct sentence and (×) in front of the wrong one. A library catalog is a database which (x) in front of the wrong one. 		
A library catalog is a database which includes all the items owned by a library. There is only one way to get useful search results and to narrow your Sourch.	()
search you can.	,	
Search engine is a good place to search for information from magazines.		,
 Databases are collections of information which are typically stored in a computer system. 	(,
5. When doing recent	(1
5. When doing research via internet, use your evaluation skills to ensure the content you select is credible and		
content you select is credible and accurate.	()
Complete the sentences with the appropriate words in brackets.		
(Databases – Search engine – paste – library catalogs)		
help people to search internet websites based on the key words as phrases.	nd	
are a collection of information which are typically stored in a comp system and can be accessed, for free, through a school or library.	ute	er
3. A is a database which includes all the items owned by a library.		
Copy, and cut are some of the most commonly used word process commands.	sin	g
Read and correct words between brackets.		
1. (Databases) help people to search internet websites based on the key w		
	*****)
 (Search engine) is a database which includes all the items owned by a library. 		1
	*****)
 (Search engine) is a good place to search for information from journals, newspapers, and reference books.)

Lesson 7 Operating System

An operating system includes accessible devices such as:

- 1) Screen readers
- 2) Magnifiers
- It runs a computer s software and hardware, and allows a user to communicate with the computer easily
- Most computer's come pr loaded with an operating system
- Microsoft windows is on most computers worldwide
- Apple computers run on mac OS

Mobile operating systems

Mobile devices have mobile operating systems

- The most popular mobile Oss are android, and apple iOS, which is used on iPhone and iPad
- Android uses open source software, which means a person can change and read the programming code
- Apple iOS is closed; it can't be seen or change by the public
- Both android and iOS perform the same basic functions, such as messaging, web access, video chat and touch function

Device type	Operating system		
iOS	The operating system used on apple mobile		
	devices		
Windows	The operating system used on Microsoft		
<u>.</u>	PCs		
Android	The operating system used on mobile		
<u>.</u>	devices other than apple products		
macOS	The operating used on apple PCs		

Cutting edge operating systems

Other types of operating systems power different type of cutting _edge technologies (for <u>example</u>)

- The Robot operating system (ROS) is an open _source used for building robot application
- And there are multiple operating systems powering selfdriving cars, including those developed by apple car play and windows TM automotive as well as individual car companies

Programming language

Instructions to a computer are given in code

- Over time, programming language have evolved from simple machine language (binary 0,1) to high level human like language
- Computer language often share similarities, so once you learn one, it is easier to learn other
- Programming language are usually open source, anyone can see, modify or distribute the code
- Programmers use hypertext markup language (HTML)to create web page

HTML

Is commonly chosen for website creation because it is easy to learn and to use

- It allows creators to add elements such as text, link, image, audio and even videos to their web pages
- It easy to make change and it is compatible with all the major web browser

10	hoose the correct ar	ISWOR C				
	hoose the correct ar 1. A/Anis the a. operating system	Carl.	anages computer's fur	nctions.		
	c. e-readers		b. Windows Explor d. Google Chrome	61		
	- Speri - Source,	3 soltware	b. Runs a compute d. both a and b			
	 Most computers con a. operating system c. e-readers 		d. Google Chrome	er		
4	a. Apple	ers run on maco	OS. c. Android	d. Windows		
5	. The most popular m	obile OSs are		d. Windows		
6	uses open-	source software				
7		a person can ch	b. Closed-source so d. None of them	gramming co		
8	a. open-source softw c. both a and b		b. closed-source so d. none of them	oftware		
9		irce software us	ed for building robot ap	plications. d. OCR		
10	a. ROS c. Operating system	structions to a co	b. Programming La d. Both a and c			
P	ut (√) in front of the	correct senten	ce and (x) in front of	the wrong o	ne.	
1	. Operating system is	used for manag	ing computer's function	is.	()
2	. Android runs on mac	devices.			()
3	. An operating syst scanner.	em includes acc	cessible devices such a	as printer	()

4. Apple computers run on windows	s operating system.)			
5. The most popular mobile OSs are	e Android and Apple iOS. ()			
devices. 2. iOS b. The operating system used on Micros 3. Android c. The operating system used on mobile other than Apple products. 4. Windows d. The operating system used on Apple 4. Windows d. The operating system used on Apple 4. Read and write the name of the app or tool. 1. Software that manages a computer's functions, such as memory, driven					
5. The most popular mobile OSs are Android and Apple iOS. 6. Microsoft Windows runs the most computers worldwide. 7. Apple computers run on macOS. 8. Mobile devices have mobile operating systems. 9. Windows is open-source software for building robot applications. 10. HTML is commonly chosen for website creation. 3. Match from column (A) with the suitable in column (B). [A] 1. macOS 2. iOS 3. Android 4. Windows 3. Android 4. Windows 4. Windows 4. Windows 4. Windows 5. The operating system used on Micros other than Apple products. 6. The operating system used on Apple of the Apple products. 7. The operating system used on Micros other than Apple products. 9. The operating system used on Apple of the Apple of the Apple products. 9. Windows 1. Software that manages a computer's functions, such as memory, dripprinters, and other devices. 9. It is an open-source software used for building robot applications. 9. The most popular mobile OSs and it uses open source software. 5. Read and circle the correct one.					
)			
9. Windows is open-source softwar	e for building robot applications. ()			
)			
	2.7				
1. macOS a. Ti	he operating system used on Apple mobile evices.				
devices. 2. iOS b. The operating system used on Micros					
3 Android c. The operating system used on mobile					
4. Windows d. T	he operating system used on Apple PCs.				
Read and write the name of the a	ipp or tool.				
	ter's functions, such as memory, drives, (
2. It is an open-source software us	ed for building robot applications. (
3. The most popular mobile OSs ar	nd it uses open source software. (
[5] Read and circle the correct one.		١			
 Both Android and iOS perform the messaging, web access, video of 	ne (same - different) basic functions, such as chat and touch function.	Ç.			
Programing languages are usua modify, or distribute the code.	lly (open - closed) source. Anyone can see,				

<u>Lesson 8</u> <u>website Design</u>

Hyper Text Markup Language (HTML)

• It's the standard programming language used to create web pages

• It describes the structure of a web page and consists of series of element

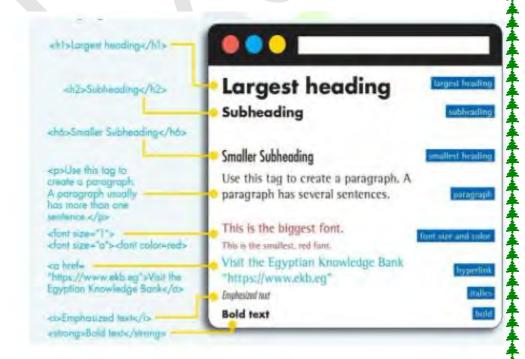
The building blocks of web pages are:

- Heading
- Paragraph
- Links
- Images

Web browser read HTML document and display the content according to the HTML tag

Tag have three main parts

- An opening ta
- The content
- A closing tag



Identify these tag

Large heading	<h1> large heading </h1>			
Subheading	<h2> subheading </h2>			
Smaller subheading	<h6> smaller subheading </h6>			
Paragraph	= to create paragraph			
	= ending of paragraph tag			
Font size	 ,<front size="7"></front>			
Font color				
Hyperlink	visit the Egyptian knowledge			
	bank			
Emphasize text (italic)	<i> emphasized </i>			
Bold text	 bold text 			

1 Choose the correct			
1. The abbreviation	of Hyper Text Markup	Language is "	
a. HTML	b. HTLM	c. E- HTMM	d. THML
2. [1] is the	standard programmi	ng language used to	create web pages.
a.«=img src>		c. OSs	d. HTML
HTML describes telements such as	he structure of a web	page and consists of	of a series of
	b. paragraphs	c. links	d. all of them
			ording to the HTML tag.
a. Web browsers		c. E-reader	
	> refers to		
a. largest heading		b. subheading	
c. Smaller subhea		d. create a parag	graph
	<h1></h1> refers	s to	
a. largest heading		b. subheading	
c. smaller subhea		d. create a parag	graph
7. The HTML tag <h< td=""><td>2> refers to</td><td></td><td></td></h<>	2> refers to		
a. largest heading		b. subheading	
c. smaller subhea		d. create a parag	ıraph
8.The HTML tag < h6	> refers to .		
a. largest heading		b. subheading	
c. smaller subhea	ding	d. create a parag	raph
9. The function of <i></i>	is		
a. largest heading		b. emphasized te	ext
c. change text to b	oold	d. font color	
10. III The function of	f <a> is		
a. create hyperlink		b. change text to	underline
c. change text to b	old	d. change text to	
11. One of the following	g tags is false	and the second s	
a. <i> </i>	b. <a> 		d. <h1> </h1>
12. One of the following			EC. 1881. 1881. 1833.
a.	b. <a> 		d. <h1> </h1>

Theme 2

<u>lesson 2</u> <u>How to deal with electronic games ?</u>

- Electronic games which are played over the internet with friends, can be a lot of fun to play.
- Electronic games can help to promote critical and creative thinking, and encourage teamwork
- Online games can be fun to play but they can impact health.

There are several disadvantages of electronic games

- 1. Physical dangers
- 2. Psychological dangers
- 3. Security dangers

Physical dangers

- Playing too often can affect your sleep cycle.
- It may keep you stimulated and prevent from falling a sleep.
- It can strain your eyes, cause back problems because you stay hunched over while playing, and cause headaches.
- There's also a danger of gaining weight because you may not be exercising or eating properly while playing electronic games.

Psychological dangers

- You may become anxious and depressed because :
- You feel lonely in the real world Or You are being bullied online.
 Electronic games can make some people aggressive, as some games promote violence.
- Electronic games can prevent some players from thinking rationally when facing situations.
- All of these factors can negatively affect your relationship with family and friends.

Security dangers

- Multiplayer games, in particular, can put your security at risk.
- If you share too much personal information, strangers may be able to access your name, email, phone number, and address.
- Large gaming communities are filled with cyberbullies.
- Hackers can cause your information to be leaked and viruses are easily spread.

Responsible gaming

You can limit the dangers you are exposed to by:

Only playing games and chatting with people you know and trust.

- Not using personal information in your username and passwords.
- Not using a webcam.
- You should accept limits that your parents set to prevent unhealthy gaming habits.
- Make sure that gaming does not replace real-life activities like spending time with your family, meeting friends, homework, maintaining a healthy diet, getting enough exercise or sleep.
- When you do encounter dangers, don't be afraid to tell your parents. They
 want to help you. That could include family discussions and increased
 supervision when using the internet.

Choose the correct answer from a, b, c or d.

Electronic games a. thinking	 help to promote critic b. playing 	c. fun	d. skills	
2. Electronic games games like	s, can be a lot of fun, b	out there can be pro		
a. cyberbullying	b. hacking	c. having fun	d. both (a) & (b)	
There are severa a. physical dange c. security dange		b. psychologica d. all of them		
4. Playing electronic	c games too often can	affect your	cycle.	
a. security	b. sleep	c. fun	d. all of them	
5. Electronic games	can strain your	and cause head	daches.	
a, hand	b. arm	c. eyes	d, leg	
6. One of psycholog a. feeling lonely c. affecting your s	gical dagners of electronsies	onic games isb. straining your	eyes	
 When playing games online, don't put particle. your full name as your username both (a) and (b) 				
8. Large gaming co	mmunities are filled wi	ith		
a. data	b. cyberbullies		d none of them	
			hrough	

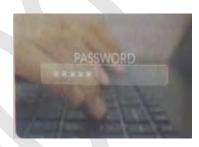
Lesson 3 Protecting yourself from digital theft

It is irresponsible to leave your devices at risk by not taking proper safety precautions. You have learned about the importance of strong passwords. Let's look at some more ways you can effectively protect your devices from theft.

Different features that you can use to protect your data

1.Passwords

Passwords with at least eight random letters, numbers, and symbols are the most secure.



2. multi-factor authentication (MFA)

MFA requires at least two ways of identifying yourself, usually through passwords, pins, and security codes or personal questions.



3. Fingerprint authentication

This type of authentication will scan your finger as a way of confirming it's you.



4. Facial recognition

Facial recognition software will scan your face using your device's camera. This way, only the user's face can be used to open their devices or devices' apps.



5. Full Encryption

Encryption protects your information so only you can access it on your device, as long as you have set your password.



Companies have more responsibility than individuals to protect against data theft.

- Companies in particular need to protect their websites and their customers' information. Therefore, Egypt has introduced the Data Protection Law to protect its citizens.
- The Data Protection Law requires companies to use strict security stands to protect their data.
- They must report immediately if they've been victims of data theft, and let their customers know immediately as well.

It's important for individuals to report data theft.

- You should report data theft.
- If you think your data has been compromised, be sure to tell a parent or trusted adult, they can let the proper authorities know.
- You should also tell family and friends you communicate with online.

10	hoose the correct an	swer from a,b,	c or d.			
1	When creating pass a. random letters c. symbols	word, you shou	b. random node. all of them			
2	2. MFA requires at leas a. two	tways	s of identifying your c. four	self. d. five		
3	a. MFB	ti-Factor Auther b. MFA	ntication. c. MFC	d. MFD		
4	a. Passwords			odes d. All of ther	n	
5	confirming it's you. a. Fingerprint Auther c. Security codes		b. Pins	finger as a way o	f	
6	a. Fingerprint Authen	tication				
7	or devices' apps. a. Facial recognition b. Both a and b			otion	E :	
Pi	ut (√) in front of the	correct senten	ce and (x) in from	t of the wrong on	e.	
1	. You can protect your	devices from th	eft by setting simple	e password.	()
2	 It is irresponsible to le precautions. 	eave your devic	es at risk by not tak	ing proper safety	()
3	. MFA stands for M	ulti-Factor Auth	entication.		()
4	. MFA authentication w	ill scan your fin	ger as a way of cor	firming it's you.	()
5	. Facial Recognition wi	ill scan your fac	e using your device	's camera.	()
6	. Multi-Factor Author yourself.	entication requir	es at least three wa	ys of identifying Activ	/a (e)
7	. MFA can confirm you	r identity through	h nins and nersona	Investions	301	nh

Lesson 4 Cyber security

You have learned a lot about online safety precautions and strategies. Here is a brief recap.

These precautions are all examples of cyber security. These protect electronic devices and personal data from attacks.

- Use safe web browsers and install anti-virus protection on your devices.
- Only allow friends and family to view your social media.
- Use strong passwords and change them every three months.
- Verify websites that you frequent are real, safe, and age appropriate.
- Verify information you find to make sure it is accurate.
- Don't communicate with people you don't know or who make you feel uncomfortable.
- Don't share personal information online.

Types of cyber security threats

1.Malware

Malware

is the greatest cyber security threat.

No matter how cautious you are, you may still get tricked.

Scareware

is a type of malware that pretends to be a virus alert.



- Scareware tells you to click on the link to help remove it, but the link is actually the virus!
- Mobile malware is also problematic and unsecured Wi-Fi, for example, can open you up to malware threats.

2.Spoofing

 Cyber criminals pretend to be a business, or a known person, in order to trick you to provide information, or click on unsafe links.



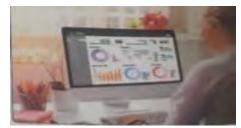
your

If you click on unsafe links, you are in danger of having your information compromised, money stolen, or viruses installed on your devices.

Examples of spoofing are a fake domain pretending to be a business, or an email account that has the name of a trusted service, or even personal acquaintances of yours.

How to deal with cyber security threats

- Stay calm, but take a swift action.
- Let your contacts know right away so they avoid opening anything suspicious. This way you can protect those you know from the same cyber threat.
 - Use anti-virus software to do a sweep of your computer and remove any viruses.
- Confirm your security settings are up-to-date.
- Change your passwords your device password, email, social media, etc.
- It is best to change all your passwords, even if you think you have only been hacked on one particular account.
- Report the threat to a trusted adult. They can decide if further action is necessary, such as reporting it to an internet service provider, or getting the authorities involved.
- Creating a personal online safety plan can prepare you for potential future issues.
 These can include how you will protect your personal devices and information from cyber criminals.



į	Put () in front of the correct sentence and (×) in front of the wrong on</th <th>e.</th> <th></th>	e.	
	 One of the safety precautions when dealing with the internet is not to share personal information online. 	()
	Using weak passwords and making it fixed is one of the safety precautions when dealing with the internet.)
	3. From the safety strategies is verifying the websites that you frequent are		,
	real, safe, and age appropriate.	()
	 Verifying information you find to make sure it is inaccurate is one of the safety precautions when dealing with the internet. 	()
	Do not communicate with people you don't know or who make you feel uncomfortable.	()
	6. Use PowerPoint application to do a sweep of your computer and remove ar	ıy	
	viruses.	()
	7. From the ways of protecting your device from threats is to install anti-viru	us	
	protection.	()
	8. It's a good idea to change all your passwords, even if you think you only		
	have one account that's been hacked.	()
	It is not important that you report the threats to a trusted adult.	()
	10. Mobile malware is problematic.	()

Lesson 5 Copyright and electronic financial trading

Copyright

Let's review what copyright (intellectual property rights) means.

Intellectual property

is someone's invention, creation or idea, that is protected by law from being copied by someone else, such as

- 1. an individual Or
 - Copyright includes written, visual, audio, video, and web material.
- "Creative Commons" refers to work that has been granted permission to share by the creator.

2. a business

- Work in data libraries such as the Egyptian Knowledge Bank (EKB) is already approved for use.
- Egypt considers work in the public domain if the creator has been deceased for at least 50 years. No creator permission is required.

The concept of electronic financial trading

A stock exchange

- It is a market where buyers and sellers deal in units of company stocks.
- These stocks are called shares
- The Egyptian stock exchange allows citizens to invest in any market sector.



For Example:

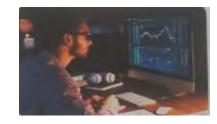
Food Clothing Petroleum

- Smart investors will research multiple companies before deciding which company to invest in.
- They analyze markets to see which companies' stocks go up or down.
- They will also be checking to see the products or services offered, to see if it's a good fit for them personally.

Ways to stay safe while using electronic financial trading applications.

A broker

- This is a person who handles the buying and selling of shares.
- In traditional settings, an investor will have a broker.



Electronic financial trading (e-trading)

- It has made the process of buying and selling shares more efficient.
 It provides the investor with more authority.
- With the spread of the internet, electronic trading platforms are now common place.
- It allows the investor to make trades on their own through websites or applications.
- While investors can still use a broker, e-trading allows more independence and user-friendly options.
- These include robo-advisors online applications that provide financial guidance and services.
- It provides access to many people who otherwise might not be able to invest.
- It is also easier and faster for different companies to trade with one another, no matter where they are located.

Choose the correct answer from a, b, c or d. 1. Copyright includes written, material. d. all of them a. visual b. audio c. video "refers to work that has been granted permission to share by the creato a. Creative Commons b. Copyright c. Hacking d. All of them Egypt considers work in the public domain if the creator has been deceased for at least No creator permission is required. a. 30 years b. 50 years c. 40 years d. 60 years 4.is someone's invention, creation or idea, that is protected by law from being copied by someone else. a. Intellectual property b. Hacking c. Creative Commons d. Machine learning Ais a market where buyers and sellers deal in units of company stock b. stock exchange c. trade d copyright a. supermarket 6. In stock exchange, stocks are called d copyrights b. pieces c. shares a. parts 7. Smart will research multiple companies before deciding which company to invest in. d doctors b. players c. teachers a. investors 8. In traditional settings, an investor will have a c. teacher d. doctor a. player b. broker

9. has made the process of buying and selling shares more efficient. c. E-learning d. E-mail a. E-trading b. E-market

10. Ais a person who handles the buying and selling of shares.

c. teacher d. doctor b. student a. broker

<u>Lesson 6</u> Cloud storage of files

The concept of cloud computing

Cloud computing

is the on-demand storing, and accessing, of data and programs via remote servers on the internet.

 Cloud computing enables users to access files and data easily and conveniently from anywhere and at any time.

Examples:



Remote servers

 Connect users who are not on the local area network (LAN) to access and manage data, files, and applications via the internet.

The advantages and disadvantages of cloud computing.

Advantages

- It frees up space on your devices by using cloud storage services.
- It allows you to log in and access your files from multiple devices, as long as you have internet service.
- It provides a backup for your files.
- It provides an extra layer of security by offering password protected data storage and data encryption.
- It allows you to directly share files with authorized users.

Disadvantages

- It requires you to have an internet connection. If you lose your internet connection, you won't be able to access files that are only stored in the cloud.
- Cloud storage is often a fee-based service. If you want to store files, you
 will need to pay a fee -the more storage you require, the higher the fee
 you will pay.
- If the cloud service you are using is a victim of a data breach, you may become a victim as well, as your information may be compromised.
 However, while there is a small risk, cloud services are overall extremely safe and secure.

Data encryption

• It converts data into a code to prevent unauthorized user access.

A data breach

• It occurs when unauthorized parties gain access to confidential data and information.

The role of cloud computing in storing files

- Having a document management system allows you to organize your documents so it is quick and easy to find them.
- Create separate folders for different types of data like photos, videos, audio files, and documents.
- Separate school and personal information, with one folder for each.
- Label folders and subfolders clearly, so it's easy to find what you are looking for.
- Consider keeping separate folders depending on the file type, such as videos, photos, audio files, and text documents.

Strong passwords

- Create strong passwords for files and have security measures in place.
- Be sure to use a strong password for any account you have on a cloud storage platform, including Multi-Factor Authentication(MFA) for additional security.
- All the large and reputable cloud storage services offer MFA.

2	Put (✓) in front of correct sentence and (x) in front of the wrong one.		
	Cloud computing provides an extra layer of security by offering password protected data storage and data encryption.	()
	Remote servers connect users who are using printers to access and managed data, files, and applications via the internet.	e ()
	 Google and OneDriveTM are not cloud computing services. 	()
	 Cloud computing is the on-demand storing and accessing of data and programs via remote servers on the internet. 	()
	5. Cloud storage is one of the cloud computing services.	1)
	When using PowerPoint, we convert the data into a code to prevent unauthorized user access.	()
	7. For easy work on computer, create separate folders for different types of data.	()
	8. From the advantages of cloud computing is to have internet connection.	()
	 Be sure to use a strong password for any account you have on a cloud storage platform. 	()

Lesson 7 Cloud computing applications

 Cloud computing is storing, and accessing, data or programs through the internet.

Microsoft 365 and Google Workspace

 Microsoft 365 and Google Workspace are the most popular software that deal with cloud computing applications. Both platforms include productivity apps and storage.



Microsoft 365 offers a whole suite of productivity apps such as Microsoft

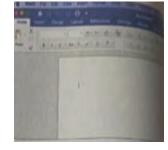
Teams, Word, Excel, PowerPoint, its email platform, Outlook, as well as Microsoft 365 storage application OneDrive.

Microsoft 365

In summary, this platform provides everything you need.



 When you select Microsoft Word, as shown in the photo, it opens up a new blank document that allows you to draft ideas, a story, or an assignment.



PowerPoint

 Other applications like PowerPoint can also help you create a presentation and OneDrive can help you share work with your friends too.

OneDrive

- OneDrive allows you to store, share, and access files from any device. It's very user-friendly.
- You upload your files and then click on the Share option to share with others.
- You can decide what level of access each person you share with gets – whether it's for viewing purposes only, or editing.



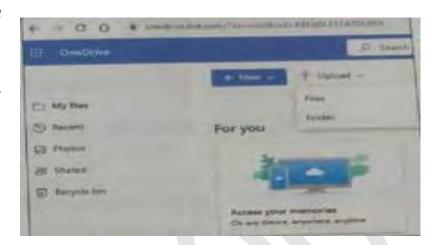


How to upload files or folders to OneDrive

1. In Chrome, sign in the Microsoft Office.

Select OneDrive.

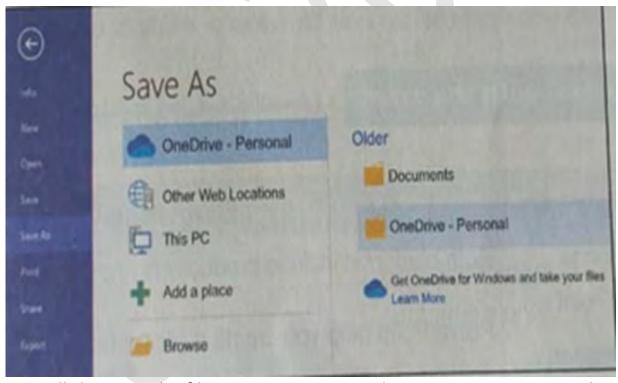
- 2.Select **Upload**>Files or Upload>Folder.
- 3. Select **the files** or **folder** you want to upload.
- 4. Select Open or Select **Folder**.



How to save a file to OneDrive

1. Select **File > Save a Copy >** OneDrive -Personal/Company.

- 2. Select Enter file name here and type a name
- 3.Select Save



4. You will then see the file in your OneDrive, the next time you open the Office app

Choose the correct ans	wer from a, b, c	or d.	
 applications. a, Microsoft 365™ both (a) and (b) 	t popular software	b. Google Workspac d. none of them	
2is storing, an		a or programs through the c. Cloud computing	
 Microsoft 365 offers a a. Microsoft Teams™ 		The state of the s	d. all of them
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7 app is used a. Microsoft Teams™		g lists. c. PowerPoint	d. Outlook™
8 allows you t		nd access files from any	
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10. In OneDrive, you can a. files only c. folders only		b, files and folders d, subfolders only	
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